

## ABSTRACT

The present invention relates to a process for the preparation of dimethylcumenes comprising alkylating a substrate comprising of one or more xylene isomers with an alkylating agent in the presence of a solid acid zeolite catalyst selected from ultrastable zeolite Y ( $\text{Si/Al} = 5$  to  $50$ ) and Beta ( $\text{Si/Al} = 10 - 120$ ), and separating the products formed in vapour phase.